

PROJECT NAME:	CATALOG NUMBER:		
NOTES:	EIXTURE SCHEDULE:		

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NEW T8 LED RETROFIT TUBE

(Replace T8 Fluorescent Tube)
Patent Number: 201530468283.8













MODEL: CL-DN4T8LEDRT-18W

PRODUCT DESCRIPTION:

Lighting Direct, LP New T8 LED retrofit tube is the ideal plug and play solution that works straight out of the box. Designed to deliver over 1940 lumens, these energy-saving LED lamps are quick, easy and safe to install into existing linear fluorescent fixtures without any extra effort or re-wiring. Lighting Direct, LP New T8 LED retrofit tube utilizes the existing T8 instant-start electronic ballasts, thus minimizing maintenance and labor costs.

- Input Voltage: 01/, 166 VAC, determined by fluorescent a'kk'rs
- De>b'bx901/ Im/W
- Compatible with most electronic instant-start T8 ballasts
- All Tube construction with 01/@beam angle
- Color Rendering Index (CRI): ≥72
- 100.000 hour life
- THD <20%
- Power Factor: 0.9 nominal
- Dimmable (ballast dependent)
- 6 year khlhsdov'qq'msx
- Suitable for use in dry locations
- Suitable for use in totally enclosed recessed fixture
- Not for use with T12 magnetic or electronic ballasts
- Not for use with T8 magnetic or HO ballasts
- Not for use or to be wired to "mains voltage"

DIMENSION:





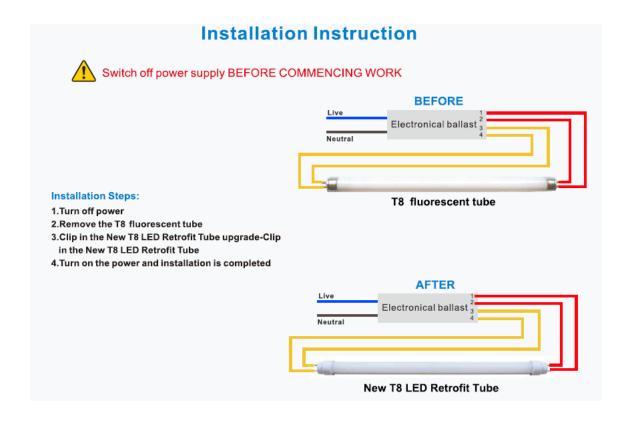
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SPECIFICATIONS:		4 - FOOT		
ITEM	SPECIFICATION	DETAILS		
	Power Consumption	18W		
	Lumens Delivered	2200 lm		
	Efficacy	120 lm/W		
GENERAL PERFORMANCE	CRI	83		
	Beam Angle	120		
	Color Temperature (CCT)	4000K, 5000K		
	Lumen Maintenance (L70)	100,000 hours		
ELECTRICAL	Power Factor	0.9		
ELECTRICAL	Input Voltage	120-277 VAC		
PHYSICAL	Operating Temperature	-4°F to 113°F		
	Certification	ETL DLC FCC NSF		
CERTIFICATION	Material Usage	RoHS compliant, no mercury		
CLATIFICATION	Environment	Dry		
	Warranty	7 Years		



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Lighting Direct, LP - New LED T8 Retrofit Tube **Compatible Ballasts List**

Item	Manufacturer	Model	Туре	Item	Manufacturer	Model	Туре
1	Philips-Advance	ICN-1P32-N	Instant Start Ballast	44	Philips-Advance	IOP-4PSP32-HL-SC	Program Start Ballast
2	Philips-Advance	ICN-2P32-N	Instant Start Ballast	45	Philips-Advance	IOP-1PSP32-HL-SC	Program Start Ballast
3	Philips-Advance	ICN-3P32-N	Instant Start Ballast	46	Philips-Advance	IOP-2PSP32-HL-SC	Program Start Ballast
4	Philips-Advance	ICN-4P32-N	Instant Start Ballast	47	Philips-Advance	IOP-3PSP32-HL-SC	Program Start Ballast
5	Philips-Advance	IOPA-1P32-N	Instant Start Ballast	48	Philips-Advance	IOP-4PSP32-HL-SC	Program Start Ballast
6	Philips-Advance	IOPA-2P32-N	Instant Start Ballast	49	Philips-Advance	IOP-1PSP32-LW-SC	Program Start Ballast
7	Philips-Advance	IOPA-3P32-N	Instant Start Ballast	50	Philips-Advance	IOP-2PSP32-LW-SC	Program Start Ballast
8	Philips-Advance	IOPA-4P32-N	Instant Start Ballast	51	Philips-Advance	IOP-3PSP32-LW-SC	Program Start Ballast
9	Philips-Advance	IOPA-1P32-HL-SC	Instant Start Ballast	52	Philips-Advance	IOP-4PSP32-LW-SC	Program Start Ballast
10	Philips-Advance	IOPA-2P32-HL-SC	Instant Start Ballast	53	Philips-Advance	IOP-1PSP32-SC	Program Start Ballast
11	Philips-Advance	IOPA-3P32-HL-SC	Instant Start Ballast	54	Philips-Advance	IOP-2PSP32-SC	Program Start Ballast
12	Philips-Advance	IOPA-4P32-HL-SC	Instant Start Ballast	55	Philips-Advance	IOP-3PSP32-SC	Program Start Ballast
13	Philips-Advance	ICN-1P32-SC	Instant Start Ballast	56	Philips-Advance	IOP-4PSP32-SC	Program Start Ballast
14	Philips-Advance	ICN-2P32-SC	Instant Start Ballast	57	Philips-Advance	GOPA-1P32-SC	Instant Start Ballast
15	Philips-Advance	ICN-3P32-SC	Instant Start Ballast	58	Philips-Advance	GOPA-2P32-SC	Instant Start Ballast
16	Philips-Advance	ICN-4p32-SC	Instant Start Ballast	59	Philips-Advance	GOPA-3P32-SC	Instant Start Ballast
17	Philips-Advance	REB-1P32-SC	Instant Start Ballast	60	Philips-Advance	GOPA-4P32-SC	Instant Start Ballast
18	Philips-Advance	REB-2P32-SC	Instant Start Ballast	61	Philips-Advance	GOP-1PSP32-SC	Instant Start Ballast
19	Philips-Advance	REB-3P32-SC	Instant Start Ballast	62	Philips-Advance	GOP-2PSP32-SC	Instant Start Ballast
20	Philips-Advance	REB-4P32-SC	Instant Start Ballast	63	Philips-Advance	GOP-3PSP32-SC	Instant Start Ballast
21	Philips-Advance	IOP-1P32-LW—SC	Instant Start Ballast	64	Philips-Advance	GOP-4PSP32-SC	Instant Start Ballast
22	Philips-Advance	IOP-2P32-LW-SC	Instant Start Ballast	65	Philips-Advance	GOPA-1P32-LW-SC	Instant Start Ballast
23	Philips-Advance	IOP-3P32-LW—SC	Instant Start Ballast	66	Philips-Advance	GOPA-2P32-LW-SC	Instant Start Ballast
24	Philips-Advance	IOP-4P32-LW—SC	Instant Start Ballast	67	Philips-Advance	GOPA-3P32-LW-SC	Instant Start Ballast
25	Philips-Advance	IOPA-1P32-LW-N	Instant Start Ballast	68	Philips-Advance	GOPA-4P32-LW-SC	Instant Start Ballast
26	Philips-Advance	IOPA-2P32-LW-N	Instant Start Ballast	69	Philips-Advance	HOP-2PSP32-HL-SC	Program Start Ballast
27	Philips-Advance	IOPA-3P32-LW-N	Instant Start Ballast	70	Philips-Advance	HOP-3PSP32-HL-SC	Program Start Ballast
28	Philips-Advance	IOPA-4P32-LW-N	Instant Start Ballast	71	Philips-Advance	HOP-4PSP32-HL-G	Program Start Ballast
29	Philips-Advance	IOPA-1P32-N	Instant Start Ballast	72	Philips-Advance	IOP-3P32-HL-90-SC	Instant Start Ballast
30	Philips-Advance	IOPA-2P32-N	Instant Start Ballast	73	Philips-Advance	IOPA-4P32-HL-90-SC	Instant Start Ballast
31	Philips-Advance	IOPA-3P32-N	Instant Start Ballast	74	Philips-Advance	RELB-2S40-N	Rapid Start Ballast
32	Philips-Advance	IOPA-4P32-N	Instant Start Ballast	75	Philips-Advance	ICN-2S40-N	Rapid Start Ballast
33	Philips-Advance	IOP-1P32-SC	Instant Start Ballast	76	Philips-Advance	ICN-2S24	Program Start Ballast
34	Philips-Advance	IOP-2P32-SC	Instant Start Ballast	77	Philips-Advance	leN-2S24-N	Program Start Ballast
35	Philips-Advance	IOP-3p32-SC	Instant Start Ballast	78	Philips-Advance	ICN-2S39	Program Start Ballast
36	Philips-Advance	IOP-4P32-SC	Instant Start Ballast	79	Philips-Advance	ICN-2S39-N	Program Start Ballast
37	Philips-Advance	IOPA-1P32-HL-SC	Instant Start Ballast	80	Philips-Advance	ICN-2S28	Program Start Ballast
38	Philips-Advance	IOPA-2P32-HL-SC	Instant Start Ballast	81	Philips-Advance	ICN-2S28-N	Program Start Ballast
39	Philips-Advance	IOPA-3P32-HL-SC	Instant Start Ballast	82	Philips-Advance	ICN-2S54	Program Start Ballast
40	Philips-Advance	IOPA-4P32-HL-SC	Instant Start Ballast	83	Philips-Advance	ICN-2S54-N	Program Start Ballast
41	Philips-Advance	IOP-1PSP32-HL-SC	Program Start Ballast	84	GE	GE-132-MAX-N/Ultra	Instant Start Ballast
42	Philips-Advance	IOP-2PSP32-HL-SC	Program Start Ballast	85	GE	GE-232-MAX-N/Ultra	Instant Start Ballast
43	Philips-Advance	IOP-3PSP32-HL-SC	Program Start Ballast	86	GE	GE-332-MAX-N/Ultra	Instant Start Ballast

Please contact Lighting Direct, LP for questions about third party ballasts that are not on this list.

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LIGHTING NEW T8 LED RETROFIT TUBE

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Lighting Direct, LP - New LED T8 Retrofit Tube Compatible Ballasts List

Item	Manufacturer	Model	Туре	Item	Manufacturer	Model	Type
87	GE	GE-432-MAX-N/Ultra	Instant Start Ballast	130	GE	487-XLH-TC-P-IP	Rapid Start Ballast
88	GE	GE-132-MAX-L/Ultra	Instant Start Ballast	131	GE	960-VLH-TC-P-IP	Rapid Start Ballast
89	GE	GE-232-MAX-L/Ultra	Instant Start Ballast	132	GE	532-BR-TC-P-IP	Instant Start Ballast
90	GE	GE-332-MAX-L/Ultra	Instant Start Ballast	133	GE	213-TC-P-IP	Instant Start Ballast
91	GE	GE-432-MAX-L/Ultra	Instant Start Ballast	134	GE	B132IUNVHE-A	Program Rapid Start Ballast
92	GE	GE-132-MAX-H/Ultra	Instant Start Ballast	135	GE	B232IUNVHE-A	Program Rapid Start Ballast
93	GE	GE-232-MAX-H/Ultra	Instant Start Ballast	136	GE	B332IUNVHE-A	Program Rapid Start Ballast
94	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	137	SYLVANIA	QHE 1x32T8/UNV ISL-SC	Instant Start Ballast
95	GE	GE-432-MAX-H/Ultra	Instant Start Ballast	138	SYLVANIA	QHE 2x32T8/UNV ISL-SC	Instant Start Ballast
96	GE	B132PUNVHP-N	Program Rapid Start Ballast	139	SYLVANIA	QHE 3x32T8/UNV ISL-SC	Instant Start Ballast
97	GE	B232PUNVHP-N	Program Rapid Start Ballast	140	SYLVANIA	QHE 4x32T8/UNV ISL-SC	Instant Start Ballast
98	GE	B332PUNVHP-A	Program Rapid Start Ballast	141	SYLVANIA	QHE 1X32T8/UNV ISN-SC	Instant Start Ballast
99	GE	B432PUNVHP-A	Program Rapid Start Ballast	142	SYLVANIA	QHE 2X32T8/UNV ISN-SC	Instant Start Ballast
100	GE	B332 347HP	Program Rapid Start Ballast	143	SYLVANIA	QHE 3X32T8/UNV ISN-SC	Instant Start Ballast
101	GE	B228PUNV-C	Program Rapid Start Ballast	144	SYLVANIA	QHE 4X32T8/UNV ISN-SC	Instant Start Ballast
102	GE	B224PUNV-C	Program Rapid Start Ballast	145	SYLVANIA	QHE 1X32T8/UNV ISH-SC	Instant Start Ballast
103	GE	B239PUNV-D	Program Rapid Start Ballast	146	SYLVANIA	QHE 2X32T8/UNV ISH-SC	Instant Start Ballast
104	GE	B254PUNV-D	Program Rapid Start Ballast	147	SYLVANIA	QHE 3X32T8/UNV ISH-SC	Instant Start Ballast
105	GE	B140R120HP	Instant Start Ballast	148	SYLVANIA	QHE 4X32T8/UNV ISH-SC	Instant Start Ballast
106	GE	B140R277HP	Instant Start Ballast	149	SYLVANIA	QTP 1X32T8/UNV ISL-SC	Instant Start Ballast
107	GE	B240R120HP	Instant Start Ballast	150	SYLVANIA	QTP 2X32T8/UNV ISL-SC	Instant Start Ballast
108	GE	B240R277HP	Instant Start Ballast	151	SYLVANIA	QTP 3X32T8/UNV ISL-SC	Instant Start Ballast
109	GE	B332 347HP	Instant Start Ballast	152	SYLVANIA	QTP 4X32T8/UNV ISL-SC	Instant Start Ballast
110	GE	B340R120HP	Program Rapid Start Ballast	153	SYLVANIA	QTP 1X32T8/UNV ISN-SC	Instant Start Ballast
111	GE	B340R277HP	Program Rapid Start Ballast	154	SYLVANIA	QTP 2X32T8/UNV ISN-SC	Instant Start Ballast
112	GE	B260 120HP	Instant Start Ballast	155	SYLVANIA	QTP 3X32T8/UNV ISN-SC	Instant Start Ballast
113	GE	B260 277HP	Instant Start Ballast	156	SYLVANIA	QTP 4X32T8/UNV ISN-SC	Instant Start Ballast
114	GE	B260120RH	Instant Start Ballast	157	SYLVANIA	QTP 1X32T8/UNV ISH-SC	Instant Start Ballast
115	GE	B260 277RH	Instant Start Ballast	158	SYLVANIA	QTP 2X32T8/UNV ISN-SC	Instant Start Ballast
116	GE	697-L-TC-P-IP	Rapid Start Ballast	159	SYLVANIA	QTP 3X32T8/UNV ISN-SC	Instant Start Ballast
117	GE	573-L-TC-P-IP	Rapid Start Ballast	160	SYLVANIA	QTP 4X32T8/UNV ISN-SC	Instant Start Ballast
118	GE	588-L-TC-P-IP	Rapid Start Ballast	161	SYLVANIA	QTP 1X32T8/UNV PSX-TC	Program Start Ballast
119	GE	413-C-TC-P-IP	Rapid Start Ballast	162	SYLVANIA	QTP 2X32T8/UNV PSX-TC	Program Start Ballast
120	GE	412-L-SLH-TC-P-IP	Rapid Start Ballast	163	SYLVANIA	QTP 3X32T8/UNV PSX-TC	Program Start Ballast
121	GE	458-L-SLH-TC-P-I	Rapid Start Ballast	164	SYLVANIA	QTP 4X32T8/UNV PSX-TC	Program Start Ballast
122	GE	446-L-SLH-TC-P	Rapid Start Ballast	165	SYLVANIA	QTP 1X32T8/UNV PSN-TC	Program Start Ballast
123	GE	537-L-TC-P-I	Rapid Start Ballast	166	SYLVANIA	QTP 2X32T8/UNV PSN-TC	Program Start Ballast
124	GE	443-L-SLH-T-P	Rapid Start Ballast	167	SYLVANIA	QTP 3X32T8/UNV PSN-TC	Program Start Ballast
125	GE	490-XLH-TC-P	Rapid Start Ballast	168	SYLVANIA	QTP 4X32T8/UNV PSN-TC	Program Start Ballast
126	GE	627-LLH-TC-P-IP	Rapid Start Ballast	169	SYLVANIA	QHE2x32T8/UNV-PSH-HT	Program Start Ballast
127	GE	480-SLH-TC-P-IP	Rapid Start Ballast	170	SYLVANIA	QHE3x32T8/UNV-PSH-HT	Program Start Ballast
128	GE	480-XLH-TC-P-IP	Rapid Start Ballast	171	SYLVANIA	QHE4x32T8/UNV-PSH-HT	Program Start Ballast
129	GE	487-SLH-TC-P-IP	Rapid Start Ballast	172	SYLVANIA	OHE 1X32T8/347 ISL-SC	Instant Start Ballast

Please contact Lighting Direct, LP for questions about third party ballasts that are not on this list.



NEW T8 LED RETROFIT TUBE

(Replace T8 Fluorescent Tube)

Patent Number: 201530468283.8

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Lighting Direct, LP - New LED T8 Retrofit Tube Compatible Ballasts List

Item	Manufacturer	Model	Туре	
173	SYLVANIA	OHE 2X32T8/347 ISL-SC	Instant Start Ballast	
174	SYLVANIA	OHE 3X32T8/347 ISL-SC	Instant Start Ballast	
175	SYLVANIA	OHE 4X32T8/347 ISL-SC	Instant Start Ballast	
176	SYLVANIA	OHE 1X32T8/347 ISN-SC	Instant Start Ballast	
177	SYLVANIA	OHE 2X32T8/347 ISN-SC	Instant Start Ballast	
178	SYLVANIA	OHE 3X32T8/347 ISN-SC	Instant Start Ballast	
179	SYLVANIA	OHE 4X32T8/347 ISN-SC	Instant Start Ballast	
180	SYLVANIA	QT2X32T8/347 ISL-SC	Instant Start Ballast	
181	SYLVANIA	QT4X32T8/347 ISL-SC	Instant Start Ballast	
182	SYLVANIA	QTP1X32T8/347 ISN-SC	Instant Start Ballast	
183	SYLVANIA	QTP2X32T8/347 ISN-SC	Instant Start Ballast	
184	SYLVANIA	QT3X32T8/347 ISN-SC	Instant Start Ballast	
185	SYLVANIA	QT4X32T8/347 ISN-SC	Instant Start Ballast	
186	SYLVANIA	QT2X32T8/347 ISH-SC	Instant Start Ballast	
187	SYLVANIA	QTP 2x39-24T5HO/UNV PSN NL	Program Start Ballast	
188	SYLVANIA	QTP 2x39-24T5HO/UNV PSN NL	Program Start Ballast	
189	SYLVANIA	QTP 2x54 T5HO/UNV PSN NL	Program Start Ballast	
190	SYLVANIA	QTP 2x28 T5/UNV PSN NL	Program Start Ballast	
191	SYLVANIA	QTP 2x54 T5HO/UNV PSN HT NL	Program Rapid Start Ballast	
192	SYLVANIA	QTP 4x54 T5HO/UNV PSN HTW NL	Program Rapid Start Ballast	
193	GE	GE-232-120RED-DIY	Instant Start Ballast	
194	GE	GE-432-120RED-DIY	Instant Start Ballast	
195	GE	GE-232-120-N	Instant Start Ballast	
196	GE	GE-432-120-N	Instant Rapid Start Ballast	
197	GE	GE-132-MV-N	Instant Start Start Ballast	
198	GE	GE-232-MV-N	Instant Start Start Ballast	
199	GE	GE-332-MV-N	Instant Start Ballast	
200	GE	GE-432-MV-N	Instant Start Ballast	
201	GE	GE-132-MV-N-DIY	Instant Start Ballast	
202	GE	GE-232-MV-N-DIY	Instant Start Ballast	
203	GE	GE-332-MV-N-DIY	Instant Start Ballast	
204	GE	GE-432-MV-N-DIY	Instant Start Ballast	
205	GE	GE232MAX347-N	Instant Start Ballast	
206	GE	GE432MAX347-N	Instant Start Ballast	
207	SUNPARK	U-1/32ISE-HBF	Instant Start Ballast	
208	SUNPARK	U-2/32ISE-HBF	Instant Start Ballast	
209	SUNPARK	U-3/32ISE-HBF	Instant Start Ballast	
210	SUNPARK	U-4/32ISE-HBF	Instant Start Ballast	
211	SUNPARK	U-1/32ISE-LBF	Instant Start Ballast	
212	SUNPARK	U-2/32ISE-LBF	Instant Start Ballast	
213	SUNPARK	U-3/32ISE-LBF	Instant Start Ballast	
214	SUNPARK	U-4/32ISE-LBF	Instant Start Ballast	
215	HOWARD	EP3/32IS/MV/MC/HE	Instant Start Ballast	

Item	Manufacturer	Model	Туре
216	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast
217	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast
218	PROLUME	EP232IS/L/MV/SL	Instant Start Ballast
219	PROLUME	EP232IS/L/MV/HE	Instant Start Ballast
220	RADIONIC	E232H12	Instant Start Ballast

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